

Custom:



20.00000 MHz

Custom specification:

custom part number TX9214-2000-001
frequency: 20.0000 MHz
tolerance: $\pm 1.0\text{ppm}(-10 +70)^\circ\text{C}$
output: CMOS 15pF
 Duty Cycle 50% +/-5%

supply voltage: +5.0 Vd.c.

Generic specification:

stability:
 against V_{cc} change $\pm 0.02\text{ppm max.}, V_{cc} \pm 5\%$
 against load change $\pm 0.02\text{ppm max.}, \text{load} \pm 10\%$
 ageing short term $\pm 0.005\text{ppm max./day}$ after 30 days continuous operation
 ageing long term $\pm 1.00\text{ppm max./year}$ after 30 days continuous operation
 tune $\pm 10\text{ppm typical}$

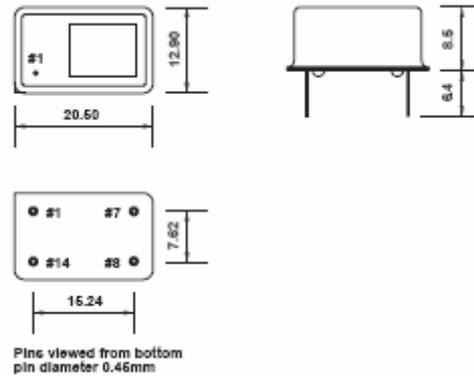
power supplies:
 start up current 20mA max.,
 insulation resistance 500Meg Ω min., 100Vd.c.

phase noise:
 single sideband -95dBc/Hz, $f_o + 10\text{Hz}$
 -125dBc/Hz, $f_o + 100\text{Hz}$
 -155dBc/Hz, $f_o + 1\text{KHz}$

temperature:
 operating range $(-10 +70)^\circ\text{C}$
 storage range $(-40 +125)^\circ\text{C}$

marking: part number, frequency, date code, serial number

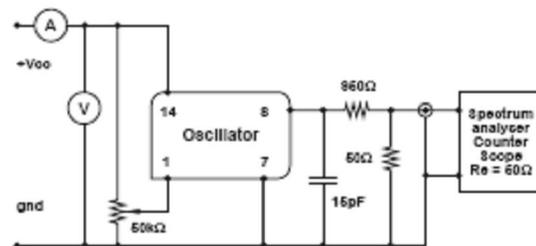
Dimensions (mm):



Pin Connections:

- #1 Tune
- #7 ground/case
- #8 output
- #14 +Vcc

Test circuit:



test circuit includes a 20:1 step down.

Environmental conditions:

- mechanical shock:** MIL standard 202F, method 213, condition J
- thermal shock:** MIL standard 202F, method 107, condition A
- vibration:** MIL standard 202F, method 204, condition B
- solderability:** 5 seconds max. $+230^\circ\text{C}$
3 seconds max. $+350^\circ\text{C}$
- RoHs:** RoHS Compliant.



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 oscillators

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